PATENT COOPERATION TRL. .TY

	From the INTERNATIONAL BUREAU To:			
PCT				
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 02 October 2000 (02.10.00)	RAFENOMANJATO, Jean-Pierre I.R.G. Infomedia Research Group Inc. Suite 203 390, St-Vallier East Street Quebec, G1K 3P6 CANADA			
Applicant's or agent's file reference				
<n°>2609-3</n°>	IMPORTANT NOTIFICATION			
International application No. PCT/CA99/01168	International filing date (day/month/year) 07 December 1999 (07.12.99)			
The following indications appeared on record concerning: X the applicant X the inventor	the agent the common representative			
Name and Address DUSSAULT, Andre 2055, du Moulin Quebec, Quebec G2B 2B9	State of Nationality CA CA Telephone No.			
Canada	Facsimile No.			
	Teleprinter No.			
2. The International Bureau hereby notifies the applicant that to the person the name the add				
Name and Address	State of Nationality State of Residence			
·	Telephone No.			
	Facsimile No.			
	Teleprinter No.			
3. Further observations, if necessary: Has assigned all his rights and is now no more a	applicant/inventor.			
4. A copy of this notification has been sent to:				
X the receiving Office	the designated Offices concerned			
the International Searching Authority	X the elected Offices concerned			
X the International Preliminary Examining Authority	other:			
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Sean Taylor			
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38			

PCT

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

From the INTERNATIONAL BUREAU

RAFENOMANJATO, Jean-Pierre I.R.G. Infomedia Research Group Suite 203 390, St-Vallier East Street Quebec, G1K 3P6 **CANADA**

Date of mailing (day/month/year)

15 June 2000 (15.06.00)

Applicant's or agent's file reference <n">2609-3

IMPORTANT NOTICE

International application No. PCT/CA99/01168

International filing date (day/month/year)

Priority date (day/month/year)

07 December 1999 (07.12.99)

07 December 1998 (07.12.98)

Applicant

I.R.G. INFOMEDIA RESEARCH GROUP INC. et al

Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice: AU, CN, JP, KP, KR, US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE,AL,AM,AP,AT,AZ,BA,BB,BG,BR,BY,CA,CH,CR,CU,CZ,DE,DK,DM,EA,EE,EP,ES,FI,GB,GD,GE, GH,GM,HR,HU,ID,IL,IN,IS,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MN,MW,MX,NO,NZ, OA,PL,PT,RO,RU,SD,SE,SG,SI,SK,SL,TJ,TM,TR,TT,TZ,UA,UG,UZ,VN,YU,ZA,ZW
The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on 15 June 2000 (15.06.00) under No. WO 00/35190

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

J. Zahra

Telephone No. (41-22) 338.83.38

Facsimile No. (41-22) 740.14.35 Form PCT/IB/308 (July 1996)

Copy for the Elected Office (EO/US) ATENT COOPERATION TROTY

•	From the INTERNATIONAL BUREAU To:			
PCT				
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 02 October 2000 (02.10.00)	RAFENOMANJATO, Jean-Pierre I.R.G. Infomedia Research Group Inc. Suite 203 390, St-Vallier East Street Quebec, G1K 3P6 CANADA			
Applicant's or agent's file reference <n°>2609-3</n°>	IMPORTANT NOTIFICATION			
International application No. PCT/CA99/01168	International filing date (day/month/year) 07 December 1999 (07.12.99)			
The following indications appeared on record concerning: X the applicant X the inventor	the agent the common representative			
Name and Address DUSSAULT, Andre 2055, du Moulin Quebec, Quebec G2B 2B9 Canada	State of Nationality CA CA Telephone No. Facsimile No.			
	Teleprinter No.			
2. The International Bureau hereby notifies the applicant that the the person the name the add				
Name and Address	State of Nationality CA CA Telephone No.			
	Facsimile No.			
	Teleprinter No.			
3. Further observations, if necessary: Has assigned all his rights and is now no more a	applicant/inventor.			
4. A copy of this notification has been sent to: X the receiving Office the International Searching Authority X the International Preliminary Examining Authority	the designated Offices concerned X the elected Offices concerned other:			
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Sean Taylor			

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

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WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7: H04N 5/445

(11) International Publication Number: **A3**

WO 00/35190

(43) International Publication Date:

15 June 2000 (15.06.00)

(21) International Application Number:

PCT/CA99/01168

(22) International Filing Date:

7 December 1999 (07.12.99)

(30) Priority Data:

60/111,274

7 December 1998 (07.12.98) US

(71) Applicant (for all designated States except US): I.R.G. INFOMEDIA RESEARCH GROUP INC. [CA/CA]; 390 St-Vallier East, Quebec, Quebec G1K 3P6 (CA).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): DUSSAULT, Andre [CA/CA]; 2055 du Moulin, Quebec, Quebec G2B 2B9 (CA). RAFENOMANJATO, Jean-Pierre [CA/CA]; 57 Tardif, St-Etienne-de-Lauzon, Quebec G6J 1N7 (CA).
- (74) Agents: RAFENOMANJATO, Jean-Pierre et al.; I.R.G. Infomedia Research Group Inc., Suite 203, 390, St-Vallier East Street, Quebec, G1K 3P6 (CA).

(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

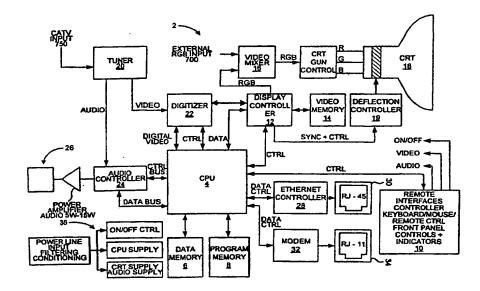
Published

With international search report.

(88) Date of publication of the international search report:

10 August 2000 (10.08.00)

(54) Title: METHOD AND APPARATUS FOR PROVIDING A COMPUTERISED TELEVISION APPARATUS



(57) Abstract

The invention relates to a computerized television apparatus. The apparatus comprises a computing device for generating a first display signal, a video path having a first input for receiving the first display signal and a second input for receiving a second display signal derived from a television signal to derive a third display signal. The apparatus further comprises a display unit with a given dimension operative for displaying a display image derived from the third display signal. The computing device is a fast boot-up computing device comprising an initial program loader unit. The fast boot-up computing device is operative to process the initial program loader unit to invoke the program elements associated to the respective data elements and to boot-up said computerized television apparatus.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
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EE	Estonia	LR	Liberia	SG	Singapore		

INTERNATIONAL SEARCH REPORT

International Application No. PCT/CA 99 01168

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-13

computerized television apparatus with a high resolution screen

2. Claims: 14-20

fast boot-up computing device for a a computerized television apparatus



international application No. PCT/CA 99/01168

BoxI	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	emational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
з. 🗌	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of Item 2 of Irst sheet)
This Into	emational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1. X	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.



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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.			
<n>2609-3</n>	ACTION	· · · · · · · · · · · · · · · · · · ·		
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/CA 99/01168	07/12/1999	07/12/1998		
Applicant				
I.R.G. INFOMEDIA RESEARCH	H GROUP INC. et al.			
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Auth Ansmitted to the International Bureau.	ority and is transmitted to the applicant		
This International Search Report consists		·		
X It is also accompanied by	a copy of each prior art document cited in this	report.		
Basis of the report				
With regard to the language, the illinguage in which it was filed, unle	international search was carried out on the bas ess otherwise indicated under this item.	is of the international application in the		
the international search w. Authority (Rule 23 1(b))	as carried out on the basis of a translation of th	e international application furnished to this		
b. With regard to any nucleotide and was carned out on the basis of the	d/or amino acid sequence disclosed in the int	ternational application, the international search		
	nal application in written form.			
filed together with the inter	rnational application in computer readable form	1.		
furnished subsequently to	furnished subsequently to this Authority in written form.			
furnished subsequently to this Authority in computer readble form.				
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
the statement that the info furnished	rmation recorded in computer readable form is	identical to the written sequence listing has been		
2. Certain claims were foun	nd unsearchable (See Box I).			
3. X Unity of invention is lack				
4. With regard to the title,				
X the text is approved as sub	• • • • • • • • • • • • • • • • • • • •			
the text has been establish	ned by this Authority to read as follows:			
5. With regard to the abstract,				
the text is approved as sub				
the text has been establish within one month from the c	ed, according to Rule 38.2(b), by this Authority date of mailing of this international search repo	as it appears in Box III. The applicant may, rt, submit comments to this Authority.		
6. The figure of the drawings to be publis		6		
X as suggested by the application	ant.	None of the figures.		
because the applicant faile	**			
because this figure better c	haracterizes the invention.	,		

International application No.

PCT/CA 99/01168

Box III · TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet) The abstract has been shortened as follows: line 7: after "unit" insert " with a given dimension" line 9: delete from "The display until line 12 ...a variant."

Proceed with: "The computing device is a fast boot-up computing device comprising an initial program loader unit. line 15: delete until line 19
Proceed with "The fast boot-upetc.

International application No. PCT/CA 99/01168

Box I	Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)
This Inte	emational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)
This Inte	emational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1. X	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-13

computerized television apparatus with a high resolution screen

2. Claims: 14-20

fast boot-up computing device for a a computerized television apparatus

IPC 7 H04N5/445						
Ť	According to International Patent Classification (IPC) or to both national classification and IPC					
	SEARCHED cumentation searched (classification system followed by classification	on symbols)				
IPC 7	HO4N	ni symbols)				
Documentat	tion searched other than minimum documentation to the extent that s	uch documents are included in the fields so	earched			
Electronic d	ata base consulted during the International search (name of data bas	se and, where practical, search terms used)			
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim No.			
Х	WO 97 36391 A (GATEWAY 2000 INC)		1-8,13			
A	2 October 1997 (1997-10-02) page 3, line 17 - line 25		9–11			
	page 5, line 21 - line 24 page 8, line 23 -page 9, line 11					
	page 10, line 19 - line 31					
	page 16, line 1 -page 17, line 11 1A,1B,3,5	; figures				
			14			
A	EP 0 713 174 A (NINTENDO CO LTD) 14 22 May 1996 (1996-05-22)					
	column 32, line 11 -column 33, li					
			·			
Furti	Further documents are listed in the continuation of box C. Patent family members are listed in annex.					
	* Special categories of cited documents : "T" later document published after the international filing date					
consid	"A" document defining the general state of the art which is not considered to be of particular relevance or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention					
filing d	"E" earlier document but published on or after the international filing date "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to					
which	"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the					
"O" docume	"O" document referring to an oral disclosure, use, exhibition or document is combined with one or more other such document.					
	P document published prior to the international filing date but later than the priority date claimed in the art. *** document member of the same patent family					
Date of the	actual completion of the international search	Date of mailing of the international se	arch report			
1	7 May 2000	2 4. 05. 2000				
Name and r	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer				
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Yvonnet, J					

INTERNATIONAL SEARCH REPORT

normation on patent family members

	International	Application No
٦	PCT/CA	99/01168

Patent docum cited in search r		Publication date		atent family member(s)	Publication date
WO 973639	1 A	02-10-1997	US	5867223 A	02-02-1999
			AU	2332397 A	17-10-1997
			CA	2250189 A	02-10-1997
			EP	0890232 A	13-01-1999
			ÜS	5838384 A	17-11-1998
EP 071317	4 A	22-05-1996	US	5680534 A	21-10-1997
			AU	691334 B	14-05-1998
			AU	3453795 A	09-05-1996
			JP	8241427 A	17-09-1996



WIPO



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		FOR FURTHER AC	CTION		ation of Transmittal of International Examination Report (Form PCT/IPEA/416)		
International application No.			cation No	International filing date (dav/month/	(vear)	Priority date (day/month/year)
i	Γ/CA9			07/12/1999	<i></i>	,/	07/12/1998
Inter		Pate	nt Classification (IPC) or na		G		
Appli	icant						
I.R.	G. INF	ОМ	EDIA RESEARCH GF	ROUP INC. et al.			
1.	This in and is	terna	ational preliminary exam smitted to the applicant a	ination report has been according to Article 36.	prepared	by this Inte	ernational Preliminary Examining Authority
2.	This R	EPO	RT consists of a total of	7 sheets, including this	s cover sh	eet.	
	 This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets. 						
3.	This re	port	contains indications rela	iting to the following iten	ns:		
	1	☒	Basis of the report				
	Ш		Priority				
	Ш		Non-establishment of o	pinion with regard to no	velty, inv	entive step	and industrial applicability
	IV	\boxtimes	Lack of unity of invention	on			
	V Areasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations suporting such statement			entive step or industrial applicability;			
	VI						
	VII	×	Certain defects in the ir	nternational application			
	VIII	×	Certain observations or	n the international applic	cation		
		,				*	
Date	of subn	nissic	n of the demand		Date of c	ompletion of	this report
21/06/2000				26.03.20	01		

Authorized officer

Moorhouse, D

Telephone No. +49 89 2399 8631

Tel. +49 89 2399 - 0 Tx: 523656 epmu d

Name and mailing address of the international

European Patent Office D-80298 Munich

preliminary examining authority:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/CA99/01168

I. Basis	of the	report
----------	--------	--------

1.	This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17).): Description, pages:								
	1-17	7	as originally filed						
	Cla	ims, No.:							
	1-20	0	as originally filed						
	Dra	wings, sheets:	•						
	1/6-	-6/6	as originally filed						
2.			uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.						
	The	These elements were available or furnished to this Authority in the following language: , which is:							
		the language of a t	ranslation furnished for the purposes of the international search (under Rule 23.1(b)).						
		the language of pu	blication of the international application (under Rule 48.3(b)).						
		the language of a t 55.2 and/or 55.3).	ranslation furnished for the purposes of international preliminary examination (under Rule						
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:								
		contained in the int	ernational application in written form.						
	☐ filed together with the international application in computer readable form.								
		furnished subseque	ently to this Authority in written form.						
	☐ furnished subsequently to this Authority in computer readable form.								
			the subsequently furnished written sequence listing does not go beyond the disclosure in oplication as filed has been furnished.						
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequence nished.						
4.	The	amendments have	resulted in the cancellation of:						
		the description,	pages:						
		the claims,	Nos.:						

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/CA99/01168

		the drawings,	sheets:				
5.	☐ This report has been established as if (some of) the amendments had not been made, sind considered to go beyond the disclosure as filed (Rule 70.2(c)):						
		(Any replacement sh report.)	eet contail	ning such	amend	lments must be referred to under item 1 and annexed to this	
6.	Add	itional observations, if	f necessar	y:			
IV.	. Lac	k of unity of inventic	on				
1.	In response to the invitation to restrict or pay additional fees the applicant has:						
		restricted the claims.					
		paid additional fees.					
		paid additional fees under protest.					
	☒	neither restricted nor paid additional fees.					
2.		This Authority found that the requirement of unity of invention is not complied and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.					
3.	This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3						
		complied with.					
		not complied with for the following reasons:					
4.	Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:						
	□ all parts.						
	Ø	the parts relating to claims Nos. 1-13.					
V.		soned statement un tions and explanatio			_	ard to novelty, inventive step or industrial applicability;	
1.	Stat	ement					
	Nov	elty (N)	Yes: No:	Claims Claims	1-13	no.	
	Inve	entive step (IS)	Yes: No:	Claims	1-13		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/CA99/01168

Industrial applicability (IA)

Yes:

Claims 1-13

No: Claims

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

Concerning Box IV

The application lacks unity, for the reasons set out in Form 206 issued by the EPO acting as ISA and referred to in the invitation to restrict or pay further fees in Form 405 issued by the present IPEA.

Since the Applicant has not replied to said invitation, the IPEA has applied the procedure set out in Article 34 (3) (c) PCT and examine what appears to be the "main" alleged invention in the present application. Since the application does not indicate that either of the searched alleged inventions (dot pitch, claims 1 to 13; fast boot-up, claims 14 to 20) is more important than the other, the IPEA has examined the first alleged invention, pursuant to Rule 68.5 PCT.

Concerning Box V

The following document is cited:

D1 : WO-A-97/36391

The subject-matter of claims 1 to 13 lacks an inventive step, and therefore does not meet the requirement set out in Article 33 (3) PCT.

In detail, it is known from document D1 to provide a computerized television apparatus (see, for example, Figures 1A and 1B and associated description passages). This apparatus includes a video path (on the VGA card 318) that can receive both TV signals (see, for example, satellite dish 114 in Figure 1 or inputs 524 and 544 to 548 in Figure 5) and signals from a computer 118 (via PCI bus 312). The said path outputs a signal (e.g. via output 542) to a monitor 120.

On page 10, line 19 to page 11, line 14 of document D1 it is disclosed that the dot pitch is as follows:

0.65 - 0.80mm for a 29" (737mm) diagonal CRT

0.80 - 0.95mm for a 33" (838mm) diagonal CRT.

Reducing these values to a fraction of the diagonal size, results in the following ranges:

0.0008820 - 0.001086 x diagonal (29"/737mm CRT) 0.0009547 - 0.001137 x diagonal (33"/838mm CRT).

The range claimed is:

0.0008528 - 0.001250 x diagonal.

It will be noted that the claimed range is broader than the known ranges, so that novelty is not at issue.

Thus, the subject-matter of claims 1 to 13 meets the requirement set out in Article 33 (2) PCT.

However, given that the skilled person is taught, at page 11, lines 1 to 4, that the above specifications may vary, but are designed to provide optimal viewability, the said skilled person would find it obvious to experiment with the exact dot pitch / diagonal relationship, and optimize it for a given screen size, desired display resolution, brightness, etc. There can be no surprising effect in extending the range slightly, especially given the number of other contributing variables.

Thus, the subject-matter of claim 1 follows in an obvious manner from the disclosure of document D1.

The subject-matter of the following claims is either disclosed in or rendered obvious by the disclosure of document D1:

Claim 3 - see, for example, connectors 524 and 212;

Claim 5 - see element 322 in Figure 3;

Claims 6 and 7 - see page 10, lines 24 to 31;

Claims 8 to 10 - see Video MUX 540 in Figure 5;

Claim 11 - see PC 18;

Claim 13 - see page 10, line 31.

EXAMINATION REPORT - SEPARATE SHEET

The subject-matter of claims 2, 4 and 12 relates to routine design details, the suggestion of which the skilled person, on reading the disclosure of document D1, would have no difficulties in suggesting.

Concerning Box VII

The claims are not in the two-part form set out in Rule 6.3 (b) PCT.

Reference signs as defined in Rule 6.2 (b) PCT ae absent from the claims.

The wording "spirit of the invention" (page 10, line 12; page 11, line 9; page 13, line 5 and page 17, line 12) constitutes unnecessary subject-matter pursuant to Rule 9.1 (iv) PCT and, moreover, casts doubt on the scope of protection sought, contrary to Article 6 PCT.

The "inclusion by reference" on page 1 may be objectionable in some national and regional jurisdictions. (See IPE Guidelines, PG-II, 4.17).

Concerning Box VIII

Claim 1 lacks clarity / support in the description and thus does not meet the requirements set out in Article 6 PCT.

This objection arises because it is not at all clear what is meant by "given dimension". Is this an area, a length, and in the latter case is it related to the screen area, or is it the depth (front to back) of the display?